Sequence Diagram Homework

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This homework assignment and can be done individually, or in groups of 2. Provide your name(s):

|  |  |  |  |
| --- | --- | --- | --- |
| 1. |  | 2. |  |

For this assignment, you will draw 2 sequences diagrams by hand using the provided template, or using StarUML.

# Answer – Problem 1

*Your answer for problem one goes here. It should display on a new page. DELETE this comment.*

# Answer – Problem 2

*Your answer for problem one goes here. It should display on a new page. DELETE this comment.*

# Problem 1

Draw a complete sequence diagram for the situation where *main* in the *A* class is called.

|  |  |
| --- | --- |
| public class A { public static void main(String[] args) { B b = new B(); b.launch(); }}public class C { public C() { setup(); }  public void setup() { System.out.println("C setup"); }} | public class B { C c;  public B() { c = new C();  }  public void launch() { System.out.println("B being launched"); init(); }  private void init() { System.out.println("B being init'd"); }} |

# Problem 2

Draw a complete sequence diagram for the situation where *m1* in the C class is called.

|  |  |
| --- | --- |
| **public class A {** **public static void main(String[] args) {** **C c = new C();** **c.m1();** **}****}****class B {** **C c;** **int z;** **public B(){}****}** | **class D {****public D() { go(); }****public void init() { go(); }****public void go() { }****public void calc(C c) {****int z = c.getVal();****}****}****class E {** **public void setSpeed() {}** **public void execute() {}** **public void reset() {}****}** |
| **class C {** **ArrayList<D> dCol;** **E e;** **boolean isReady;** **public C() {** **System.out.println("create C");** **isReady = Math.random() < 0.2 ? true : false;** **dCol = new ArrayList<D>();** **for( int i=0; i<9; i++ ) {** **D d = new D();** **dCol.add(d);** **}** **e = new E();** **}** **public void m1() {** **System.out.println("m1()");** **for( D d : dCol ) {** **d.calc(this);** **}** **if ( isReady )**  **e.setSpeed();** **else {** **for( D d : dCol ) {** **d.init();** **}** **e.reset();** **}** **e.execute();** **}** **public int getVal() {** **return (int)Math.random();** **}****}** |

Appendix

1. Sequence Diagram Template

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